



Product Manager Firefinder
U.S. Army Communications-Electronics Command
Fort Monmouth, New Jersey 07703-5000

Maintenance Bulletin

AN/TPQ-36(Y)3/5 Safety Hazard	FILE NO. 153	REVISION:
	DATE: 3/23/99	CATEGORY: D-SAFETY
SUBJECT: M116A2/E1 Trailer Mounting of the AN/TPQ-36(Y)7/8 ATG		SYSTEMS AFFECTED: AN/TPQ-36 Radar System

1. Reference: TM 9-2330-202-14&P, Operations, Unit, Direct Support and Maintenance Manual for the Three Quarter and One Ton Cargo Trailer, Dated 12 May 97.

2. Summary of the problem: A possible hazard exists involving the M116A2/E1 Trailer that the AN/TPQ-36(Y)7/8 Antenna - Transceiver Group (ATG) is mounted on. Because of the high center of gravity of the ATG, the weight on the drawbar assembly fluctuates when the trailer is towed over uneven terrain. This may cause the drawbar mounting bolts to become loose thereby causing the bolts to bend or break. One instance of bolt failure causing major system damage has been reported. When the eyebolts break, the trailer can detach from the drawbar, which can injure personnel and damage the ATG.

3. Parts, assembly, or components to be inspected: Refer to referenced TM, Section II, Figure 16 (an additional reference can be made on Page 4-100 of the Maintenance Section), for a trailer illustration that shows the capscrews and eyebolts (NSN 5306-00-733-7360) to be inspected. Figure 16 and Page 4-100 can be found on the Message Section (GPM-99-002) of the CECOM Safety Web Site at the following address: www.monmouth.army.mil/cecom/safety. This maintenance bulletin can be found on the Firefinder Web Site at the following address: <http://ff2monmouth.army.mil>.

4. The purpose of this maintenance bulletin is to inform maintenance personnel that an on-site inspection must be performed on the trailer drawbar of the M116A2/E1, NSN 2330-01-229-1278, to ensure that bolts connecting the drawbar to the trailer frame are mechanically sound and properly torqued. This inspection must be performed immediately upon receipt of this message.

5. The following is a list of area for inspection and the TM 9-2330-202-14&P references:

- Replace eyebolts (REF: Item 3, Fig 16 or see Item 8, Pg 4-100) that show signs of fatigue such as cracks or bending. The eyebolts do not have a specified torque and should only be checked for fatigue and looseness.
- Torque the two capscrews (REF: Item 5, Fig 16 or see Item 3, Pg 4-100, bolt at the end of the drawbar connecting the drawbar to the trailer frame) to between 140-150lb-ft.
- Torque the capscrew (REF: Item 1, Fig 16 or see Item 6, Pg 4-100, that connects the eyebolts to the U-shaped bracket) to between 35-40lb-ft.
- Avoid loading the rear of the trailer with additional gear, which will shift the center of gravity and cause additional stress on components when traveling.

APPROVED BY LOGISTICS MANAGER: Walter Tyson, PMFF DATE: Mar 29, 1999